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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,058	03/23/2004	Alain Yang	D0932-00411	4035
8933 7	590 11/29/2005		EXAMINER	
DUANE MORRIS, LLP IP DEPARTMENT			GOFMAN, ANNA	
30 SOUTH 17TH STREET			ART UNIT	PAPER NUMBER
PHILADELPHIA, PA 19103-4196			1771	

DATE MAILED: 11/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/807,058	YANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anna Gofman	1771				
The MAILING DATE of this communication app						
Period for Reply		•				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was pailing to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	J. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 02 No	ovember 2005.					
· _ · · · · · · · · · · · · · · · · · ·	action is non-final.					
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1-50</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>43-47</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-42 and 48-50</u> is/are rejected.	· <u> </u>					
7)⊠ Claim(s) <u>50</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
 Certified copies of the priority documents 	s have been received.					
2. Certified copies of the priority documents						
3. Copies of the certified copies of the prior	· ·	ed in this National Stage				
application from the International Bureau	· · · · · · · · · · · · · · · · · · ·					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	_					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary					
Paper No(s)/Mail Date Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) Other:						
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Election/Restrictions

1. Claims 43-47 are withdrawn from further consideration pursuant to 37 CFR

1.142(b), as being drawn to a nonelected invention, there being no allowable generic or

linking claim. Applicant timely traversed the restriction (election) requirement in the reply

filed on November 1, 2005.

Claim Objections

2. Claim 50 is objected to because of the following informalities: Applicants

disclose "the insulation product of claim 48, wherein said resinous binder is a powdered

or liquid, thermosetting, or thermoplastic biner." The word "biner" is a misspelling of

"binder". Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-42, and 48-50 are rejected under 35 U.S.C. 112, second paragraph, as

being indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention. Applicant claims rotary glass fibers,

thermoplastic fibers, and textile fibers. It is unclear how the textile fibers are different

from glass or thermoplastic fibers since both types of fibers can be formed into textiles.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-2, 4, 9-12, 15-17, 21-28, 30, 35-42, 48, and 50 are rejected under 35 U.S.C. 102(b) as being anticipated by Yang et al. (US 2003/ 0049488).

Yang et al. teach a thermal and acoustic insulation containing textile fibers, rotary glass fibers and other organic fibers, such as rayon or polyester (pg.1 paragraphs 0002 and 0015), comprising a binder (pg.2 paragraph 0021) and a nonwoven scrim layer (pg.2 paragraph 0024). These organic fibers are inherently thermoplastic fibers. The textile fibers have diameters of about 5 to 16 micrometers and length of from about 2 cm to 15cm (or 20 mm to 150 mm), and are present from about 1 to 99% of the product. The rotary fibers have diameters of about 2 to 5 micrometers and lengths of 1 to 5 cm (or 10 to 50 mm) (pg.2 paragraph 0019). The insulation product has a thickness in a range from 10 to 80 mm. The binder is thermoplastic and holds together said fibers with a resin. The thermoplastic polymer will soften or flow upon heating above a temperature such as the melting point of the polymer, causing to bond the fibers. Upon cooling and hardening, the binder will hold the fibers together. The thermoplastic binder is present from about 4 to 24% of the insulation product (pg.2 paragraph 0021). Thus, claims 1-2, 4, 9-12, 15-17, 21-28, 30, 35-42, 48, and 50 are rejected.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 5-8, 18, and 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang et al.

The features of Yang et al. have been set forth above. Yang et al. is silent about dimensions of said organic (or thermoplastic) fibers. It would have been obvious to one having ordinary skill in the art at the time of the invention to select the desired values of said thermoplastic fibers, with diameters of about 20 to 50 micrometers and lengths of about 13 to 102 mm, which would comprise about 30 to 50% of said insulation product, through the process of routine experimentation in order to arrive at values which offered the optimum insulation in the invention of Yang et al.

Further, Yang et al. is also silent about gram weight of the thermal and acoustic insulation product. It would have been obvious to one having ordinary skill in the art at the time of the invention to select the desired weight of about 700 to 3300 grams per square meters, through the process of routine experimentation in order to arrive at values which offered the optimum insulation in the invention of Yang et al. Thus, claims 5-8, 18, and 31-34 are rejected.

9. Claims 3, 29, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang et al. in view of Kajander et al. (US 2003/0008586).

The features of Yang et al. have been set forth above. Yang et al. does not disclose using nylon as a thermoplastic fiber. Kajander et al. is drawn to thermoplastic and glass fiber laminates. Kajander et al. teach that organic synthetic polymer fibers

may contain nylon (paragraph 0020). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use nylon, as taught by Kajander et al. as a thermoplastic fiber in the insulation product of Yang et al., motivated to provide a more cost effective means of using insulation materials. Thus, claims 3, 29, and 49 are rejected.

10. Claims 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang et al. in view of Tutin et al. (US 2004/ 0038017).

Yang et al. fail to teach the density of the insulation laminate. Tutin et al. is drawn to insulation laminates comprising glass and thermoplastic fibers. Tutin et al. teach that such insulation can have a density of 1-40 pounds per cubic foot. (paragraph 0060). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have formed the insulation of Yang et al. so that it comprised the density taught by Tutin et al., motivated by the teaching of Tutin et al. that these values produce a suitable insulation product. Thus, claims 19-20 are rejected.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anna Gofman whose telephone number is (571) 272-7419. The examiner can normally be reached on Mon.-Fri. 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Center (EBC) at 866-217-9197 (toll-free).

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business

Anna Gofman Examiner Art Unit 1771

AG

ELIZABETH M. COLE PRIMARY EXAMINER

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